Art. LVI.—*Monographia Chalciditum.* By Francis Walker.

(*Continued from page* 364.)

"——— the green myriads in the peopled grass."

Family Encyrtidæ.

Genus Encyrtus, *Dalman.*

Antennæ 11-articulatæ,[a] ad os insertæ: thorax antice angustatus, postice quadratus: prothorax et metathorax minima, vix conspicua: abdomen breve, basi latum; segmentum 1um. magnum; sequentia breviora, subæqualia: pedes plerumque validi; femora recta; tibiæ simplices; tarsorum articuli 1°. ad 4um. curtantes, 5us. 4°. longior; ungues et pulvilli parvi; mesopedum tibiæ spinis armatæ, tarsi lati ciliati: proalis nervus humeralis longus, cubitalis mediocris, ulnaris et radialis brevissimi.

Corpus punctatum, nitens, parce et breviter pubescens: caput transversum, mediocre, latitudine thoracis, antice convexum: oculi magni, subrotundi: ocelli in vertice triangulum fingentes, medius antepositus: antennæ clavatæ, pubescentes, corporis dimidio longiores; articulus 1us. fusiformis; 2us. cyathiformis; 3us. et sequentes breves, subcyathiformes, usque ad 8um. latescentes; clava ovata, articulo 8°. latior et plus duplo longior: mandibulæ tridentatæ, subquadratæ, non arcuatæ; dentes minuti, acuti: maxillæ longæ, subarcuatæ; laciniæ acuminatæ, intus lobatæ; palpi 4-articulati, filiformes, articuli 1us. 2us. et 3us. mediocres, 4us. multo longior fusiformis: labium obconicum; ligula brevis, lata; palpi biarticulati, breves, validi: thorax ovatus, planus: parapsidum suturæ non conspicuæ: paraptera supra convenientia: scutellum obconicum, apice subacuminatum: abdomen ovatum, planum, læve, glabrum, apice acuminatum et parce pubescens, thoracis longitudine: oviductus exertus; vaginæ pubescentes: metapedum femora et tibiæ lata: alæ angustæ. (*Cerchysius*, Westwood.)

Sp. 1. En. urocerus. Fem. *Viridis aut cyaneus, abdomen cupreum, antennæ nigræ, pedes flavi nigro et fusco varia, alæ limpidæ, proalæ fusco plerumque fasciatæ.*

[a] Antennæ *E. Jugæo* 9-articulatæ?

Encyrtus urocerus . *Dalman, Kongl. Vetens. Acad. Handl. för är* 1820, p. 368.

Cerchysius urocerus et stigmaticalis . *Westwood, Lond. and Edin. Phil. Mag. and Journ. of Science, Third Series,* I. 127.

Fem.—Læte viridis: oculi et ocelli obscure rufi: antennæ nigræ; articulus 1us. viridis: mesothoracis epimera et metathorax cuprea: abdomen cupreum, basi viridi varium: oviductus fulvus; vaginæ nigra, abdominis dimidio paullo longiores: pedes flavi; coxæ virides; propedum femora nigra, tibiæ basi fuscæ, tarsi obscure fulvi; mesopedum femora nigro-fusca basi et apice flava, tibiæ basi fusco-cinctæ, tarsi apice fusci; metapedum femora et tibiæ nigra, tarsi apice nigro-fusci: alæ limpidæ; squamulæ et nervi nigro-fusca, stigma minutum concolor; proalæ cuique apud stigma fascia postice abbreviata fusca. (Corp. long. lin. $\frac{3}{4}$—$1\frac{1}{4}$; alar. lin. 1—$1\frac{1}{2}$.)

Var. β.—Mesotibiæ omnino flavæ.

Var. γ.—Abdomen basi læte viride: propedum tibiæ fuscæ, tarsi pallide fusci; mesopedum femora nigra, tibiæ nigro-fuscæ.

Var. δ.—Thorax cyaneo-viridis: abdomen basi læte viride.

Var. ε.—Mesopedum femora et tibiæ flava, illa basi fusca.

Var. ζ.—Proalis fasciæ perfectæ.

Var. η.—Mesothoracis scutum æneo-viride.

Var. θ.—Caput cyaneum: mesothoracis scutum et scutellum cyaneo-viridia: abdomen basi læte viride: mesotibiæ nigro-fuscæ: proalis fasciæ perfectæ.

Var. ι.—Proalæ immaculatæ.

Var. κ.—Mesothoracis scutellum apice æneum: profemora supra fusco-vittata: proalæ immaculatæ.

Var. λ.—Thorax omnino viridis: tarsi fusci, apice obscuriores.

Var. μ.—Caput et thorax cyanea: abdomen basi cyaneo-viride: protibiæ nigræ: proalis fasciæ perfectæ.

June, July, September; near London, Dorsetshire, Devonshire, Isle of Wight. Found at Port Marnock, Ireland, by Mr. Haliday.

Fem.—Corpus crassum, latum, convexum, nitens, punctatum, parce pubescens: caput transversum, thoracis latitudine, postice concavum; vertex angustus; frons convexa: oculi magni, non extantes: os velut *E. uroceri* formatum: antennæ crassæ, clavatæ, pubescentes; articulus 1us. fusiformis; 2us. longicyathiformis; 3us. et sequentes subquadrati, usque ad 8um. curtantes et latescentes; clava longiovata, articulo 8°. paullo latior et plus duplo longior: thorax breviovatus; scutum transversum; paraptera non convenientia; scutellum rhombiforme: abdomen breviovatum, læve, supra planum, thorace paullo latius vix brevius: oviductus subexertus; vaginæ pubescentes; alæ angustæ.

Sp. 2. En. cyaneus. Fem. *Cyaneus viridi varius, abdomen viridi-cupreum, antennæ nigræ, pedes fulvi fusco-cincti, alis apices plerumque fusci.*

Encyrtus cyaneus . *Dalman, Kongl. Vetens. Acad. Handl. för är* 1820; *Nees ab Ess. Hym. Ich. affin. Monogr.* II. 228.

Caput nigrum, obscurum: oculi et ocelli picei: antennæ nigræ, corporis dimidio longiores; articulus 1us. fulvus, apice supra fuscus: scutum læte cyaneum: paraptera nigra, obscura: scutellum viride: metathorax nigro-cupreus: abdomen viride, nitens; discus cupreus: pedes fulvi; coxæ virides; femora nigra, apice flava; tarsi apice obscuriores; metatibiæ basi fuscæ; mesopedum tibiæ et tarsi flava, illæ basi fuscæ: alæ sublimpidæ, apice fuscæ; squamulæ et nervi fulva. (Corp. long. lin. $\frac{1}{2}$—1; alar. lin. $\frac{3}{4}$—1$\frac{1}{3}$.)

Var. β.—Caput nigro-cyaneum: scutum cyaneo-viride: abdomen cupreum, basi cupreo-viride micans.

Var. γ.—*Var.* β similis: antennis articulus 1us. nigro-fuscus, basi fulvus.

Var. δ.—Metatibiæ fuscæ.

Var. ϵ.—*Var.* δ similis: cyaneus: abdomen cupreum, basi viride: proalæ omnino sublimpidæ, apud stigma fulvescentes.

Var. ζ. Immatura? *Var.* ϵ similis: antennæ nigro-fuscæ: alæ omnino limpidæ; squamulæ et nervi flava.

Var. η.—Pedes fulvi; femora nigra; metatibiæ fuscæ; mesotibiæ fusco-cinctæ.

Var. θ.—*Var.* ε similis: caput nigro-cyaneum, antennæ nigro-fuscæ, articulus 1us. fulvus: thorax cyaneo-viridis: scutum cyaneum: pedes fulvi; tarsi apice obscuriores; metafemora fusca, apice fulva.

Var. ι.—Viridi-cyaneus: antennis articulus 1us. nigro-fuscus, basi flavus: abdomen cupreum, basi viride: pedes flavi; femora basi fusca; tibiæ fusco-cinctæ; tarsi apice fusci: protarsi fulvi; metapedum femora et tibiæ fusca: alæ fulvo-limpidæ.

June to October; on grass in fields; Windsor Forest, Hampshire, Isle of Wight, Cumberland, North Wales. Found by Mr. Haliday, near Belfast.

"Bred from a bundle of cocoons attached to a leaf, and covered with cottony yellow wool, like that which envelopes some spiders' eggs."—*Curtis's British Entomology*, 395.

Mas.—Corpus breve, crassum, convexum, punctatum, nitens, parce pubescens: caput transversum, thorace paullo latius; vertex latus; frons abrupte declivis: oculi majusculi: antennæ filiformes pubescentes, corpore paullo longiores; articulus 1us. fusiformis; 2us. cyathiformis, parvus; 3us. et sequentes longi, lineares, usque ad 8$^{um}_{12}$. paullulum curtantes; clava fusiformis, articulo 8°. fere duplo longior: thorax ovatus: mesothoracis scutum transversum; paraptera non convenientia; scutellum brevi-obconicum: abdomen brevi-ovatum, planum, thorace brevius non augustius: alæ amplæ.

Sp. 3. En. Batillus. Mas. *Viridis, abdomen cupreum, antennæ fulvæ, pedes flavi, metapedes fusci, alæ sublimpidæ.*

Viridis: capitis vertex cupreo varius: frons læte viridis: oculi et ocelli obscure rufi: antennæ pallide fulvæ, corporis longitudine; articulus 1us. læte flavus; 2us. supra basi fuscus: scutellum cupreo varium: abdomen nigro-cupreum: pedes flavi; coxæ virides; tarsi fulvi; metapedum femora et tibiæ fusca: alæ sublimpidæ, latæ, corpore longiores; squamulæ et nervi fulva. (Corp. long. lin. $\frac{1}{2}$—$\frac{3}{4}$; alar. lin. $\frac{3}{4}$—1.)

Var. β.—Tibiæ fulvo-cinctæ.

Var. γ.—Metafemora et metatibiæ nigro-fusca.

Var. δ.—Mesotarsi flavi apice fusci.

June, September; on grass in fields; near London, Berkshire, Wales, Devonshire.

Mas.—Corpus breve, crassum, punctatum, pubescens, nitens : caput transversum, convexum, postice concavum ; vertex latus ; frons abrupte declivis : oculi magni : thorax ovatus, convexus ; mesothoracis scutum transversum, paraptera fere convenientia, scutellum rhombiforme : abdomen longi-obconicum supra planum, thorace paullo brevius et angustius : antennæ filiformes, hirtæ, corpore longiores ; articulus 1us. fusiformis, gracilis ; 2us. parvus, subrotundus ; 3us. et sequentes longi, lineares, usque ad 8um. paullulum curtantes ; clava fusiformis articulo 8°. multo longior vix latior : pedes longi, graciles.

Fem.—Antennæ subclavatæ, corporis longitudine; articulus 1us. gracilis; 2us. longi-cyathiformis ; 3us. et sequentes usque ad 8um. latescentes et curtantes ; clava longi-ovata, articulo 8°. latior et plus duplo longior : abdomen brevi-ovatum, subtus carinatum, thorace multo brevius vix angustius: oviductus occultus.

Sp. 4. En. Gabinius. Mas et Fem. *Viridis cupreo aut cyaneo varius, abdomen cupreum, antennæ nigræ aut fuscæ, pedes flavi fulvo et fusco varii, metapedes nigri, alæ limpidæ.*

Mas.—Læte viridis : oculi et ocelli obscure rufi : antennæ fuscæ ; articulus 1us. basi flavus : os fuscum : mesothoracis discus cupreo varius : metathorax cupreus : abdomen cupreum, basi læte viride : propedes fulvi, coxæ femora et tibiæ supra fusco-vittata ; mesopedes pallide flavi ; metapedes nigri, femora subarcuata, tibiæ nigro-fuscæ basi et apice fulvæ, tarsi pallide fusci : alæ limpidæ ; squamulæ fuscæ ; nervi fulvi.

Var. β.—Mesothorax cyaneo-viridis : mesopedes flavi ; femora et tibiæ fusco-cincta, tarsi fulvi basi flavi ; metapedum tibiæ omnino nigro-fuscæ, tarsi fusci.

Var. γ.—Læte cyaneo-viridis : antennæ nigræ ; articulus 1us. fuscus, basi et subtus pallide flavus : abdomen nigro-cupreum, basi læte viride : pedes flavi ; propedum femora et tibiæ supra fulvo-vittata, tarsi fulvi ; mesopedum femora et tibiæ basi fulva, tarsi apice fusci : metapedes nigri, genua et tarsi fusca.

Fem.—Antennæ nigro-fuscæ ; articulus 1us. nigro-viridis : scutellum cupreum : abdomen cupreum, basi micans et viridi varium : tarsi fulvi, apice fusci ; propedum femora nigra apice flava, tibiæ fuscæ apice fulvæ ; mesopedes flavi, femora fusco-cincta, tarsi pallidiores

apice fusci; metafemora recta quam *mari* crassiora. (Corp. long. lin. $\frac{1}{2}$—$\frac{2}{3}$; alar. lin. $\frac{3}{4}$—1.)

May, September; on grass in fields, near London. Found by Mr. Haliday in Ireland.

Fem.—Corpus sat longum, nitens, scite punctatum, brevissime pubescens: caput transversum, thorace paullo latius; frons convexa: oculi magni: antennæ clavatæ, hirtæ, corporis dimidio longiores; articulus 1us. gracilis, fusiformis; 2us. longi-cyathiformis; 3us. et sequentes subcyathiformes, usque ad 8um. latescentes; clava ovata, articulo 8°. latior et plus duplo longior: thorax ovatus, planus; mesothoracis scutum transversum, paraptera non convenientia, scutellum brevissime obconicum: abdomen ovatum, planum, læve, subtus carinatum, apice parce hirtum, thorace paullo latius vix longius: oviductus subexertus: alæ angustæ.

Sp. 5. En. Marsus. Fem. *Viridi-cyaneus, abdomen cupreum, antennæ nigræ, pedes fusci, alæ subfuscæ.*

Viridi-cyaneus: oculi et ocelli obscure rufi: antennæ nigræ; articulus 1us. fuscus, basi et subtus fulvus: abdomen cupreum, basi viridi varium: pedes fusci; coxæ virides; femora et tibiæ apice fulva; pro- et meso-tibiæ fulvæ, basi supra fuscæ, trochanteres et tarsi fulvi, hi apice fusci: alæ subfuscæ; squamulæ et nervi fulva. (Corp. long. lin. $\frac{1}{2}$; alar. lin. $\frac{3}{4}$.)

July; on grass, in fields, near London.

Fem.—Corpus parvum, angustum, punctatum, pubescens, parum nitens: caput transversum, subquadratum, thoracis latitudine; vertex angustus; frons convexa, antice abrupte declivis: oculi magni, non extantes: antennæ clavatæ, pubescentes, corporis dimidio longiores; articulus 1us. fusiformis; 2us. longi-cyathiformis; 3us. et sequentes parvi, breves, usque ad 8um. latescentes; clava fusiformis, articulo 8°. latior et triplo longior: thorax ovatus; mesothoracis scutum transversum, paraptera non convenientia, scutellum breve semicirculum fingens: abdomen ovatum, planum, apice angustum acuminatum, thorace vix brevius: oviductus occultus: pedes graciles: alæ angustæ.

Sp. 6. En. argentifer. (Haliday MSS.) Fem. *Viridis, sericeus, alarum basi ferrugineus, abdomen cupreum, antennæ fuscæ flavo cinctæ, pedes fusco-flavi, proalæ fuscæ basi limpidæ.*

Viridis: oculi et ocelli obscure rufi: antennis articulus 1us. fuscus, apice flavus; 2us. et 3us. fusci; 4us. et 5us. flavi; 6us. et sequentes nigro-fusci: scutum albo-sericeum: humeri et paraptera ferruginea: scutellum nigrum, obscurum metathorax æneo-viridis, micans: abdomen læte cupreum, basi viridi varium: pedes læte flavi; mesofemora apice fulvo-cincta; metapedum femora et tibiæ fusca, basi hæ apice quoque flava: proalæ fuscæ, basi limpidæ; squamulæ et nervi fulva, hi apice fusci; metalæ limpidæ. (Corp. long. lin. $\frac{1}{3}$; alar. lin. $\frac{1}{2}$.)

Found in the Isle of Arran, by Mr. Haliday.

Fem.—Corpus breve, crassum, punctatum, pubescens, parum nitens: caput subrotundum, thorace paullo latius; vertex latus; frons convexa, ad os abrupte declivis: oculi sat magni, non extantes: antennæ clavatæ, graciles, subcylindricæ, corpore vix breviores; articulus 1us. gracilis, fusiformis; 2us. longi-cyathiformis; 3us. et sequentes breves, subquadrati, usque ad 8um. latescentes; clava fusiformis, articulo 8°. paullo latior et triplo longior: thorax ovatus, convexus; mesothoracis scutum transversum, paraptera non convenientia, scutellum obconicum: abdomen brevi-ovatum, planum, subtus carinatum, apice acuminatum, thorace paullo brevius et angustius: oviductus non exertus: pedes longi, graciles: alæ vix ullæ.

Sp. 7. En. Sipylus. Fem. *Nigro-æneus ferrugineo varius, antennæ nigræ, pedes fulvi, alæ limpidæ.*

Nigro-æneus: caput nigro-viride: oculi et ocelli obscure rufi: antennæ nigræ; articulus 1us. basi et apice fuscus: humeri ferruginei: abdomen æneo-fuscum, basi ferrugineum: oviductus vaginæ nigræ: pedes fulvi; tarsi flavi, apice pallide fusci: alæ limpidæ, mutilatæ. (Corp. long. lin. $\frac{1}{3}$.)

Var. β.—Abdomen basi fuscum: metapedes pallide fusci; tarsi fulvi, apice fusci.

October, on grass in fields, near London.

Mas.—Corpus parvum, angustum, pubescens, nitens, scitissime punctatum: caput transversum, subquadratum, thorace latius; vertex latus, convexus; frons convexa: oculi mediocres, non extantes: antennæ filiformes, pilosæ, corpore longiores; articulus 1us. fusiformis; 2us. longi-cyathiformis; 3us. et sequentes ad 8um. longi, lineares, subæquales; clava fusiformis, acuminata, articulo 8°. multo longior: thorax ovatus; mesothoracis scutum vix latius

quam longum, paraptera non convenientia, scutellum brevi-obconicum: abdomen ovatum, planum, læve, fere glabrum, apice hirtum, thorace paullo brevius et angustius: sexualia occulta: pedes longi, graciles; mesotarsi parum incrassati: alæ vix ullæ.

Sp. 8. En. Comara. Mas. *Æneo-viridis, abdomen cupreum, antennæ fulvæ, pedes flavi.*

Æneo-viridis: oculi et ocelli picei: antennæ fulvæ; articulus 1us. flavus: abdomen cupreum: pedes flavi; metafemora fusca, apice flava: alæ limpidæ, brevissimæ, volatu ineptæ. (Corp. long. lin. $\frac{1}{3}$.)

Var .*β*.—Caput et thorax cyaneo-viridia, illius vertex æneo-viridis.

Found near London; also in Ireland, by Mr. Haliday.

Fem.—Corpus angustum, punctatum, pubescens, parum nitens: caput transversum, convexum, thoracis latitudine; vertex angustus; frons convexa, ad os abrupte declivis: oculi magni: antennæ clavatæ, corpore breviores; articulus 1us. gracilis, fusiformis; 2us. longi-cyathiformis; 3us. et sequentes transversi, subquadrati, usque ad 8um. latescentes; clava longiovata, articulo 8°. paullo latior et plus triplo longior: thorax ovatus, planus; mesothoracis scutum transversum, paraptera non convenientia, scutellum breve rhombiforme: abdomen ovatum, planum, thorace paullo angustius non longius: oviductus occultus: pedes validi: alæ angustæ.

Sp. 9. En. Paralia. Fem. *Nigro-piceus fulvo varius, abdomencupreum, antennæ nigræ albo cinctæ, pedes fusco-flavi, proalæ fuscæ basi limpidæ.*

Caput nigrum, obscurum: oculi et ocelli obscure rufi: antennæ nigræ, articulus 1us. fulvus, basi supra fuscus; 2us. nigro-fuscus; 3us. pallidior, apice albidus; 4us. et 5us. albidi: thorax nigro-piceus, parum nitens, antice et utrinque fulvus; paraptera et scutellum fulva: abdomen nigro-cupreum, basi cupreo-viride micans: pedes flavi; femora fusca, basi et apice flava; metatibiæ fuscæ, basi et apice flavæ: proalæ fuscæ, basi limpidæ; metalæ limpidæ; squamulæ et nervi fulva, hi apud stigma fusci. (Corp. long. lin. $\frac{1}{2}$—$\frac{2}{3}$; alar lin. $\frac{2}{3}$—1.)

July; south of France.

Fem.—Corpus breve, crassum, latum, punctatum, pubescens, parum nitens: caput transversum, vix thoracis latitudine, antice subproductum et semicirculum fingens: oculi magni, non extantes:

antennæ clavatæ, crassæ, pubescentes, corporis dimidio longiores; articulus 1us. fusiformis, subtus dilatatus; 2us. longi-cyathiformis; 3us. et sequentes breves, transversi, usque ad 8um. latescentes; clava longiovata, articulo 8°. paullo latior et triplo fere longior: thorax ovatus, convexus; scutum transversum, paraptera non convenientia, scutellum subrotundum: abdomen rotundum, supra planum, thorace brevius et latius: metatibiæ subarcuatæ.

Sp. 10. En. barbarus. Fem. *Nigro-cyaneus, abdomen cupreum, antennæ fuscæ albo cinctæ apice nigræ, pedes fulvi, alæ fulvæ.*

Encyrtus barbarus. *Dalman, Kongl. Vetens. Acad. Handl. för är,* 1820; *Nees ab Ess. Hym. Ich. affin. Monogr.* II. 211.

Nigro-cyaneus: oculi et ocelli obscure rufi: antennæ fuscæ; articulus 1us. niger; 7us. et 8us. albidi; clava nigra: abdomen cupreum, nitens, læve, fere glabrum: pedes fulvi; tarsi flavi, apice fusci; mesopedes flavi: alæ limpidæ, breves, angustæ, apice subfuscæ; squamulæ et nervi fulva; stigma minutum; proalæ cuique apud stigma fascia lata fulva. (Corp. long. lin. $\frac{1}{2}-\frac{2}{3}$; alar. lin. $\frac{3}{4}$—1.)

Var. β.—Antennis articuli 5us. et 6us. nigro-fusci.

August, September; near London, North Wales, Scotland. Found at Holywood, Ireland, by Mr. Haliday.

Sp. 11. En. Zarina. Fem. *Cyaneus, abdomen cupreum, antennæ fusco-fulvæ, pedes fulvi, alæ brevissimæ.*

Læte cyaneus: caput viride: oculi et ocelli obscure rufi: antennæ fusco-fulvæ; articulus 1us. fulvus; clava fusca: abdomen cupreum: pedes fulvi; mesopedes flavi, tarsi apice fulvi: alæ sublimpidæ, mutilatæ. (Corp. long. lin. $\frac{2}{3}$.)

Found in Ireland, by Mr. Haliday.

Sp. 12. En. ænei-ventris (Hal. MSS.) Fem. *Fulvus, abdomen viridi-cupreum, antennæ nigræ, pedes fulvi, alæ brevissimæ.*

Læte fulvus: oculi et ocelli picei: antennæ nigræ, pubescentes; articulus 1us. fulvus: scuti discus viridescens; abdomen viridi-cupreum; pedes læte fulvi; tarsi apice obscuriores: mesopedes flavi: alæ limpidæ, mutilatæ, brevissimæ. (Corp. long. lin. $\frac{1}{2}$.)

Var. β.—Scutum omnino fulvum.

Found on heathy hills, in the Isle of Bute, by Mr. Haliday.

Fem.—Corpus breve, latum, crassum, pubescens, scitissime punctatum, parum nitens: caput semicirculum fingens thoracis latitudine; vertex latus; frons convexa, antice abrupte declivis: antennæ clavatæ, pubescentes, corporis dimidio longiores; articulus 1us. maxime dilatatus; 2us. longi-cyathiformis; 3us. et sequentes transversi, brevissimi, usque ad 8um. latescentes; clava brevi-ovata, articulo 8°. latior et plus duplo longior: thorax breviconicus, planus; mesothoracis scutum transversum, paraptera non convenientia, scutellum subrhombiforme: abdomen subrotundum, supra planum, thorace latius et brevius: oviductus occultus: alæ parvæ aut nullæ.

Sp. 13. En. Jalysus. Fem. *Fulvus, abdomen nigro-cupreum, antennæ nigræ, pedes fulvi, alæ nullæ.*

Obscure fulvus: oculi et ocelli picei: antennæ nigræ: abdomen nigro-cupreum, nitens: pedes fulvi; metafemora fusca; tarsi flavi, apice fusci. (Corp. long. lin. $\frac{2}{5}$.)

September; on Skiddaw, Cumberland.

Fem.—Niger: oculi et ocelli picei: antennæ nigræ, pubescentes; articulus 1us. ater, nitens: abdomen æneo-atrum, nitens, læve, fere glabrum, apice quasi truncatum: pedes fulvi; tarsi apice obscuriores; coxæ nigræ; propedum femora nigro-fusca apice basique flava, tibiæ basi fuscæ; metapedum femora nigra, tibiæ nigro-fuscæ: alæ sublimpidæ, angustæ, brevissimæ; proalæ cuique apud stigma fascia lata fusca; squamulæ et nervi fusca.

Mas.—Antennæ submoniliformes, extrorsum crassiores, corporis longitudine; articulus 1us. fusiformis, non dilatatus; 2us. parvus, ovatus; 3us. et sequentes sublineares, usque ad 8um. curtantes vix latescentes; clava longiovata, articulo 8°. multo longior vix latior: abdomen quam *fem.* brevius; segmentum 1um. ejus dorsum fere totum occupans.

Sp. 14. En. Madyes. Fem. *Niger, abdomen æneo-atrum, antennæ* mari *fuscæ* fem. *nigræ, pedes nigro-fusci,* fem. *alæ fusco fasciatæ.*

Antennæ fuscæ: pro- et mesopedum femora nigro-fusca, basi et apice nigra; tibiæ basi fuscæ: alæ mutilatæ, vix conspicuæ. (Corp long. lin. $\frac{1}{4}$—$\frac{1}{3}$.)

Found on the *Arbutus Uva Ursi*, on the top of Goatfell, in the Isle of Arran, by Mr. Haliday.

Mas.—Corpus parvum, nitens, scitissime squameum, fere glabrum : caput longitudine latius et in ea thoraci æquum ; vertex angustus ; frons abrupte declivis : oculi sat magni : antennæ gracillimæ, extrorsum crassiores, corpore paullo breviores ; articulus 1us. gracilis, fusiformis ; 2us. longi-cyathiformis ; 3us. et sequentes longi, lineares, usque ad 8um. paullulum curtantes et latescentes ; clava fusiformis, acuminata, articulo 8°. triplo longior vix latior : thorax ovatus, planus ; mesothoracis scutum transversum ; paraptera supra convenientia ; scutellum rhombiforme, postice subproductum : abdomen ovatum, planum, ac si thorax longum et latum : sexualia subexerta.

Fem.—Antennis clava quam *mari* longior et latior : abdomen longi-ovatum, thorace paullo longius : oviductus subexertus.

Sp. 15. En. Imandes. Mas et Fem. *Cyaneus, abdomen nigro-cupreum, antennæ fuscæ, pedes flavo-fusci, femora nigra, alæ subfuscæ.*

Cyaneus : caput nigrum : os flavum : palpi fusci : oculi et ocelli picei : antennæ *mari* fuscæ, *fem.* nigro-fuscæ ; articulus 1us. niger : abdomen nigro-cupreum : sexualia fusca : pedes nigri ; tibiæ flavæ, basi fuscæ ; tarsi fulvi ; metatibiæ nigro-fuscæ, apice flavæ : alæ subfuscæ ; squamulæ et nervi fusca. (Corp. long. lin. $\frac{1}{3}$—$\frac{1}{2}$; alar. lin. $\frac{2}{3}$—$\frac{3}{4}$.)

Var. β.—*Mas* metatibiæ fulvæ, basi fuscæ.

Var. γ.—*Fem.* thorax purpureo-cyaneus.

July ; on grass in woods, near London.

Fem.—Corpus crassum, squameum, nitens, pubescens : caput convexum longitudine latius et in ea thoraci æquum ; vertex latus ; frons subimpressa, abrupte declivis : oculi mediocres : antennæ subclavatæ, graciles, corporis dimidio paullo longiores ; articulus 1us. gracilis, fusiformis ; 2us. longicyathiformis ; 3us. et sequentes parvi, transversi, subcyathiformes, usque ad 8um. latescentes ; clava fusiformis, acuminata, articulo 8°. plus quadruplo longior : thorax brevi-ovatus, planus ; mesothoracis scutum transversum ; paraptera non convenientia ; scutellum rhombiforme : abdomen ovatum, planum, thorace paullo latius non longius : oviductus occultus : pedes graciles.

Sp. 16. En. Chærilus. Fem. *Æneo-viridis, abdomen nigro-cupreum, antennæ nigræ, pedes fusci, alæ subfuscæ.*

Æneo-viridis : oculi et ocelli rufi : antennæ nigræ ; articulus 1us. nigro-viridis : abdomen nigro-cupreum : pedes fusci ; genua fulva ; tarsi flavi, apice fusci : alæ subfuscæ ; squamulæ et nervi fusca. (Corp. long. lin. $\frac{1}{2}$; alar. lin. $\frac{5}{4}$.)

September ; roots of grass, sandhills, North Wales.

Fem.—Corpus breve, latum, crassum, punctatum, obscurum, albo-hirtum : caput magnum, brevissimum, non aliter thorace latum, ad os abrupte declivis : mandibulæ bidentatæ, angustæ, arcuatæ ; dentes acuti, subæquales : maxillæ longæ, subarcuatæ ; laciniæ acuminatæ, intus dilatatæ ; palpi filiformes, graciles, articulus 2us. 1°. longior, 3us. adhuc longior, 4us. fusiformis 3°. longior : labium angustum, obconicum ; ligula brevis, lata, conica : palpi biarticulati, breves, subfiliformes : antennæ extrorsum crassiores, corpore paullo breviores ; articulus 1us. longissimus, fusiformis, subtus dilatatus ; 2us. longi-cyathiformis ; 3us. et sequentes longi, sublineares, usque ad 8um. curtantes et paullo latescentes ; clava fusiformis, articulo 8°. duplo longior et paullo latior : thorax subquadratus, convexus : mesothorax dorsum omne occupans ; segmenta maxima ; parapsidum suturæ non conspicuæ ; paraptera supra non convenientia ; scutellum rhombiforme : pectoris laminæ maximæ : abdomen planum, subtus carinatum, apice compressum et acuminatum ; segmentum 1um. maximum : segmenta ventralia occulta : oviductus non exertus : pedes validi.

Mas.—Corpus quam *fem.* angustius : caput antice convexum : antennæ filiformes, corporis longitudine ; articulus 1us. non dilatatus ; 2us. cyathiformes ; 3us. et sequentes ad 8um. curtantes ; clava articulo 8°. multo longior : abdomen ovatum, subtus convexum, thorace brevius.

Sp. 17. En. hemipterus. Mas et Fem. *Nigro-æneus, antennæ nigræ, tarsi et* mari *mesopedes pallidi, alæ bifasciatæ aut vix ullæ.*

Encyrtus hemipterus . *Dalman, Kongl. Vetens. Acad. Handl. för är*, 1820 ; *Nees ab Ess. Hym. Ich. affin. Monogr.* II. 252.

Nigro-æneus, obscurus, unicolor : oculi et ocelli obscure rufi : palpi flavi, apice fusci : antennæ nigræ, brevissime pubescentes ; articulus 1us. nigro-æneus ; clava apice fusca : trophi flavi : pectoris

laminæ nigro-cyaneæ : pedes nigro-ænei ; genua et protarsi fusca ; meso- et metatarsi flavi, apice fusci : alæ fuscæ, mutilatæ, subcoriaceæ. (Corp. long. lin. $\frac{1}{2}$—$\frac{3}{4}$; alar. lin. 1.)

Mas.—Abdomen cupreum : tarsi fusci : mesopedes fulvi, femora fusca.

Var. β.—*Fem.* protarsi fulvi.

Var. γ.—*Fem.* caput et thorax nigro-viridia.

Var. δ.—*Fem.* alæ perfectæ, fuscæ ; squamulæ et nervi obscuriora, horum cubitalis crassus ; proalæ cuique fasciæ 2, apicalis lunata alba ; metalæ sublimpidæ.

June, September ; on ferns ; Hampshire, Isle of Wight, Wales, Cumberland, Dorsetshire, Devonshire, Cornwall, Ireland, Auvergne.

Fem.—Corpus crassum, latum, nitens, glabrum, scitissime punctatum : caput brevissimum, thoracis latitudine ; vertex latus, convexus ; frons abrupte declivis : oculi mediocres : antennæ extrorsum crassiores, corpore vix breviores ; articulus 1us. longissimus, gracilis, subfusiformis ; 2us. longus, linearis, 3us. et sequentes longi, linearis, usque ad 8um. paullulum latescentes et curtantes ; clava longi-ovata, articulo 8°. duplo fere longior vix latior : thorax oblongus, subquadratus, convexus : prothorax supra conspicuus : mesothoracis scutum breve, transversum ; paraptera magna, supra convenientia ; scutellum rhombiforme : metathorax sat bene determinatus : abdomen ovatum, supra planum, subtus carinatum, basi latum, apice angustum et acuminatum : alæ angustæ.

Sp. 18. En. Lindus. Fem. *Cyaneo-fulvus, antennæ fuscæ apice flavæ, pedes fulvi, alæ subfuscæ aut nullæ.*

Fulvus : capitis vertex et thoracis discus cyaneo-fusca : oculi et ocelli rufi : antennæ fuscæ ; articulus 1us. fulvus ; 2us. basi et subtus fulvus ; clava pallide flava, basi fusca : abdominis discus cyaneo-fuscus : pedes fulvi ; tarsi flavi, apice fusci ; protarsi obscure fulvi ; metapedum femora et tibiæ supra fusca : alæ subfuscæ ; squamulæ et nervi fusca ; proalæ cujusque apicem versus fascia lunata alba. (Corp. long. lin. $\frac{1}{4}$—$\frac{3}{4}$; alar. $1\frac{1}{4}$.)

Var. β.—Antennis articulus 1us. supra apice fuscus ; 3us. et sequentes ad 9um. nigro-fusci : alæ nullæ.

June ; on chalk downs, Isle of Wight.

Fem.—Corpus angustum, scitissime squameum, parce et breviter pubescens: caput breve, antice convexum, thorace paullo angustius: antennæ gracillimæ, fere filiformes, corpore longiores; articulus 1us. longissimus, gracilis, linearis; 2us. longi-cyathiformis; 3us. et sequentes ad 8um. longi, lineares; clava longissima, linearis, articulo 8°. paullo latior et plus duplo longior: thorax ovatus, subconvexus: mesothoracis scutum longitudine latius; parapsidum suturæ non conspicuæ; paraptera supra non convenientia; scutellum subrhombiforme: abdomen læve, planum, subtus carinatum, apice compressum et acuminatum, thoracis longitudine at eodem multo angustius: oviductus subexertus: pedes longi, graciles: alæ angustæ.

Sp. 19. En. Anceus. Fem. *Viridis sericeus, abdomen cupreo-æneum, antennæ nigræ, pedes flavi, alæ limpidæ.*

Læte viridis, quasi sericeus: oculi et ocelli rufi: antennæ nigræ, vix pubescentes: abdomen cupreo-æneum, nitens, glabrum, apice parce pubescens: oviductus vaginæ, nigræ, pubescentes: pedes læte flavi; tarsi apice fusci: alæ limpidæ; squamulæ et nervi fulva. (Corp. long. lin. $\frac{3}{4}$; alar. lin. $1\frac{1}{4}$.)

Var. β.—Metapedum femora et tibiæ fusco fasciata.

July, September; on lauristinus and ivy, near London, North Wales.

Sp. 20. En. Didius. Fem. *Viridis aut cupreus, sericeus, antennæ nigræ aut fuscæ, pedes flavi, mesopedes nigri, alæ limpidæ.*

Læte viridis, sericeus: capitis vertex viridi-æneus: oculi et ocelli obscure rufi: antennæ nigræ; articulus 1us. nigro-viridis, apice fuscus; 2us. apice fuscus: humeri albi: mesothoracis scutum antice cupreum; scutellum obscure cupreum: metathorax æneus: abdomen cupreum, basi viride, apice parce pubescens: oviductus vaginæ nigræ, pubescentes: pedes pallide flavi; coxæ virides; tarsi apice fulvi; propedum femora et tibiæ extus fulvo vittata, tarsi fulvi; metapedum femora et tibiæ nigra apice basique flava, tarsi apice fusci: alæ limpidæ; squamulæ et nervi pallide fusca. (Corp. long. lin. $\frac{2}{3}$—$\frac{3}{4}$; alar. lin. $\frac{3}{4}$—1.)

Var. β.—Mesopedum femora basi fusca; tibiæ fuscæ, basi et apice flavæ.

Var. γ.—*Var. β* similis: antennæ fuscæ; articulus 1us. viridis; 2 . niger.

Var. δ.—Caput et thorax cupreo-ænea.

Var. ε.—Caput viride: thorax æneo-viridis, cupreo varius.

July to September; on grass in fields, near London; Devonshire.

Mas.—Corpus angustum, sublineare, nitens, scite punctatum, pubescens: caput breve, transversum, thoracis latitudine; vertex latus; frons abrupte declivis: oculi mediocres: thorax longi-ovatus, fere planus: mesothoracis scutum latitudine paullo longius; paraptera fere convenientia; scutellum brevi-obconicum: abdomen ovatum, planum, læve, fere glabrum, thorace brevius vix angustius, apice hirtum: antennæ longæ, filiformes, pilosæ; articulus 1us. fusiformis; 2us. subrotundus, parvus; 3us. et sequentes longi, æquales, sublineares; clava fusiformis, acuminata, articulo 8°. multo longior non latior.

Sp. 21. En. melanopus (Haliday MSS.) Mas. *Viridis, abdomen cupreum, antennæ fuscæ, pedes nigro-fusci, mesopedes flavi, alæ limpidæ.*

Læte viridis: oculi et ocelli obscure rufi: antennæ fuscæ, subtus fulvæ, corpore vix breviores; articulus 1us. flavus, subdilatatus, supra apicem versus niger; 2us. supra nigro-fuscus: humeri læte flavi: abdomen cupreum, basi et utrinque viride: sexualia flava: pro- et metapedum femora et coxæ viridia, illa apice fulva; tibiæ nigro-fuscæ, subtus pallidiores, apice fulvæ; tarsi pallide fusci: mesopedes flavi; tibiæ basi et tarsi apice fusca: alæ limpidæ; squamulæ et nervi pallide fusca. (Corp. long. lin. $\frac{1}{2}$—1; alar. lin. 1—1$\frac{1}{4}$.)

Var. β.—Antennis articulus 1us. nigro-viridis; 2us. nigro-fuscus: propedes fusci, femora fulva supra viridi vittata, tibiæ supra et apice fulvæ; mesotibiæ omnino flavæ; metapedum tibiæ nigræ, tarsi fusci basi flavi.

July, October; near London. Found in August on the coast near Belfast, by Mr. Haliday.

Sp. 22. En. subplanus. Mas. *Præcedenti similis at angustior, antennæ longiores graciliores fulvæ.*

Encyrtus subplanus. *Dalman, Kongl. Vetens. Acad. Handl. för är,* 1820; *Nees ab Ess. Hym. Ich. affin. Monogr.* II. 245.

Mas.—Læte viridis, micans: oculi et ocelli rufi: antennæ fulvæ,

corporis longitudine; articuli 1us. et 2us. supra virides: humeri læte flavi: abdomen cupreum, basi viridi-cyaneum: pedes læte flavi; coxæ virides; tarsi apice fusci; propedum femora basi nigra, tibiæ extus fusco vittatæ, tarsi fulvi; mesopedum femora fulva apice flava, tibiæ basi supra fusco maculatæ; metapedum femora et tibiæ nigra, tarsi fusci basi flavi: alæ limpidæ; squamulæ et nervi fulva, hi apice fusci. (Corp. long. lin. $\frac{3}{4}$—1; alar. lin. $1\frac{1}{4}$—$1\frac{1}{2}$.)

May, September; on grass in fields, near London, Wales, Isle of Wight.

Sp. 23. En. Gellius. Mas. E. subplano *adhuc gracilior multoque minor.*

Viridis, quasi sericeus: capitis vertex viridi-æneus: oculi et ocelli obscure rufi: antennæ fulvæ, corporis longitudine; articulus 1us. viridis, basi et apice flavus; 2us. basi fuscus: mesothoracis scutum antice cupreum; scutellum obscure cupreum: metathorax æneus: abdomen cupreum, basi viride: pedes pallide flavi; coxæ virides; tarsi apice fulvi; propedum femora et tibiæ extus fulvo vittata, tarsi fulvi; mesopedum femora basi fusca, tibiæ fuscæ basi et apice flavæ; metapedum femora et tibiæ nigra apice basique flava, tarsi apice fusci: alæ limpidæ; squamulæ et nervi pallide fusca: alæ limpidæ; squamulæ et nervi pallide fusca. (Corp. long. lin. $\frac{1}{2}$; alar. lin. $\frac{3}{4}$.)

September; on grass in fields; near London.

Mas.—Corpus longum, sublineare, nitens, scite punctatum, brevissime pubescens: caput transversum, convexum, subquadratum, latitudine thoraci æquum; vertex latus; frons abrupte declivis: oculi mediocres: antennæ graciles, filiformes, pilosæ aut pubescentes, corpore paullo longiores; articulus 1us. fusiformis; 2us. subrotundus; 3us. et sequentes longi, lineares, discreti, usque ad 8um. paullulum curtantes; clava fusiformis, acuminata, articulo 8°. multo longior: thorax ovatus, planus: mesothoracis scutum vix latius quam longum; paraptera fere convenientia; scutellum obconicum: abdomen ovatum, planum, thorace paullo brevius et angustius: alæ amplæ.

Sp. 24. En. Glaphyra. Mas. *Viridis æneo et cyaneo varius, abdomen cupreum, antennæ nigræ aut fuscæ pilosæ, pedes nigro-fuscæ, tarsi flavi, alæ sublimpidæ.*

Viridis: caput æneo-varium: oculi et ocelli picei: antennæ nigræ;

articulus 1us. nigro-viridis: abdomen cupreum, basi micans: coxæ et femora nigro-viridia; tarsi flavi, apice fusci; meso- et metatibiæ nigro-fuscæ, basi albidæ, apice flavæ; protibiæ et protarsi pallide fusca: alæ sublimpidæ; squamulæ et nervi fusca. (Corp. long. lin. $\frac{1}{2}$—$\frac{3}{4}$; alar. lin. $\frac{3}{4}$—1.)

Var. β.—Femora nigro-fusca, apice flava; tibiæ pallidiores; protibiæ flavæ, basi supra fuscæ.

Var. γ.—Thorax æneo-viridis.

Var. δ.—Caput et thorax cyaneo-viridia.

Var. ε.—*Var.* β similis: mesotibiæ flavæ, fusco cinctæ.

Var. ζ.—Antennæ nigro-fuscæ.

Var. η.—Metapedum tibiæ nigræ, basi et apice pallide flavæ; tarsi fulvi, apice fusci.

Var. θ.—Antennis articuli 3°. ad 11um. pallide fusci.

May to September; on grass in fields; near London, Berkshire, Isle of Wight, Dorsetshire, &c.

Sp. 25. En. Mattinus. Mas. *Cyaneo-viridis, abdomen cupreum, antennæ fuscæ pubescentes, pedes fusco-fulvi, metapedes nigri, alæ sublimpidæ.*

Mas.—Cyaneo-viridis: capitis frons læte viridis: oculi et ocelli picei: palpi fusci: antennæ fuscæ; articulus 1us. flavus, apice supra fuscus: abdomen cupreum, basi cyaneum: pedes fulvi; coxæ virides; femora et tibiæ pallide fusca, basi et apice fulva; metapedum femora et tibiæ nigra: alæ sublimpidæ, latæ. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β.—Profemora flava.

May, September; on grass in fields; near London, Hampshire.

Mas.—Corpus longum, lineare, punctatum, subnitens, parce et breviter pubescens: caput brevissimum, convexum, thoracis latitudine; vertex latus; frons abrupte declivis: oculi mediocres: antennæ subfiliformes, planæ, pubescentes, corpore vix breviores; articulus 1us. fusiformis, gracilis; 2us. subrotundus; 3us. et sequentes longi, lineares, usque ad 8um. paullulum curtantes; clava fusiformis, articulo 8°. plus dimidio longior: thorax ovatus, convexus; mesothoracis scutum longitudine vix latius; paraptera non convenientia; scutellum obconicum, basi utrinque angulatum:

abdomen ovatum, planum, longum et latum ac si thorax : alæ longæ

Sp. 26. En. serricornis ? Mas. *Viridis aut æneus, scutellum et abdomen cuprea, antennæ nigræ, pedes nigro-fuscæ, mesopedes pallidiores, alæ limpidæ.*

Encyrtus serricornis ? *Dalman, Kongl. Vetens. Acad. Handl. för är,* 1820 ; *Nees ab Ess. Hym. Ich. affin. Monogr.* II. 244.

Encyrtus chalconotus ? *Ditto* *ditto.* 232.

Læte viridis, nitens : gula et os fulva : oculi et ocelli obscure rufi : antennæ nigræ ; articulus 1us. nigro-viridis : thorax subtus æneo-viridis, cyaneo varius : humeri albi : scutellum cupreum : metathorax nigro-cupreus : abdomen nigro-cupreum, basi micans : oviductus subexertus ; vaginæ nigræ : pedes nigri ; coxæ virides ; genua flava ; tarsi flavi, apice fusci ; propedum femora nigro-fusca, tibiæ fuscæ, tarsi fulvi ; mesopedum femora et tibiæ fulva, apice basique flava : alæ limpidæ ; squamulæ et nervi fulva, hi apice obscuriores. (Corp. long. lin. $\frac{2}{3}$—$\frac{3}{4}$; alar. lin. 1—1$\frac{1}{4}$.)

Var. β.—Cyaneo-viridis : capitis vertex postice cupreus : antennæ fuscæ ; articulus 1us. nigro-viridis ; 2us. niger : abdomen cupreum, basi viride : pro- et metagenua fulva ; mesotibiæ fuscæ ; metapedum tibiæ nigro-fuscæ, tarsi fulvi apice fusci.

Var. γ.—Protarsi pallide fusci : mesopedum femora nigro-fusca, apice flava ; tibiæ fuscæ : metatarsi fulvi, apice fusci.

Var. δ.—Capitis vertex æneus : scutum cyaneo-viride, antice cupreum ; mesopedum femora nigra, apice flava.

Var. ε.—Caput et thorax ænea.

September ; Dorsetshire, Cornwall. Found in August on the coast near Belfast, by Mr. Haliday.

Mas.—Corpus angustum, nitens, scite punctatum, fere glabrum : caput transversum, convexum, thoracis latitudine ; vertex latus ; frons abrupte declivis : oculi mediocres : antennæ filiformes, pilosæ, corpore vix breviores ; articulus 1us. fusiformis, subtus dilatatus ; 2us. parvus, brevi-cyathiformis ; 3us. et sequentes longi, æquales, sublineares ; clava fusiformis, acuminata, articulo 8°. multo longior : thorax longi-ovatus fere planus ; mesothoracis scutum transversum ; paraptera non convenientia ; scutellum obconicum : abdomen ovatum, planum, thorace brevius vix angustius.

Sp. 27. En. Anebus. Mas. *Viridis, abdomen cupreum, antennæ nigræ, pedes nigro-fusci, tarsi flavi, alæ limpidæ.*

Læte viridis: capitis vertex cupreo varius: oculi et ocelli picei: antennæ nigræ; articulus 1us. viridis: abdomen nigro-cupreum: sexualia fulva: propedes fulvi, femora nigra, tibiæ fusco cinctæ; mesopedes flavi, femora nigra, tibiæ fusco-cinctæ, tarsi flavi apice fulvi; metapedum femora et tibiæ nigra, genua fulva, tarsi flavi apice fusci: alæ limpidæ; squamulæ fuscæ; nervi fulvi, apice fusci. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β.—Capitis vertex cupreus: thorax cupreo-viridis.

June; Hampshire, Isle of Wight.

Mas.—Corpus breve, crassum, scabre punctatum, parce pubescens, parum nitens: caput transversum, breve, convexum, thorace paullo latius; vertex latus; frons abrupte declivis: antennæ submoniliformes, pilosæ, corporis longitudine; articulus 1us. gracilis, fusiformis; 2us. brevis, cyathiformis; 3us. et sequentes ad 8um. longi, æquales, sublineares, discreti; clava longi-ovata, articulo 8°. latior et multo longior: thorax ovatus, altus, fere planus: mesothoracis scutum vix longitudine latius; paraptera non convenientia; scutellum obconicum: abdomen brevi-ovatum, planum, læve, nitens, fere glabrum, thorace paullo angustius et plus dimidio brevius: pedes longiusculi.

Sp. 28. En. Aralius. Mas. *Viridi-æneus, antennæ fuscæ aut fulvæ, pedes nigro-fuscæ, femora viridia, mesopedes fusco-fulvæ, alæ limpidæ.*

Æneo-viridis: caput viride: oculi et ocelli obsure rufi: antennæ nigro-fuscæ; articulus 1us. viridis; 2us. niger: scutellum viridi-æneum: abdomen cupreo-æneum, viridi varium: pro- et metapedum coxæ et femora viridia; genua fulva; tibiæ nigræ; tarsi fulvi, apice fusci: mesopedum femora et tibiæ fusca, hæ apice fulvæ; genua flava; tarsi pallide fulvi, apice fulvo-fusci: alæ limpidæ; squamulæ et nervi fusca. (Corp. long. lin. $\frac{1}{2}$—$\frac{3}{4}$; alar. lin. $\frac{3}{4}$—1.)

Var. β.—Thorax viridis: scutellum æneo-viride.

Var. γ.—Thorax æneus: caput viridi-æneum: protibiæ nigro-fuscæ, apice fulvæ: mesotarsi flavi, apice fusci: alarum nervi fulvi, apice obscuriores.

Var. δ.—Antennæ fulvæ; articulus 1us. viridis; 2us. niger: scutellum æneum: abdomen nigro-æneum: genua flava; tarsi pallide fusci: mesopedum tibiæ apice flavæ; tarsi flavi, apice fusci; protibiæ nigro-fuscæ: alarum nervi fulvi, apice obscuriores.

September; near London, Isle of Wight.

Mas.—Corpus breve, crassum, pubescens, subnitens, scite punctatum: caput transversum, breve, convexum, thoracis latitudine; vertex latus; frons abrupte declivis: oculi mediocres: antennæ filiformes, pilosæ, corporis longitudine; articulus 1us. gracilis, fusiformis; 2us. brevis, cyathiformis; 3us. et sequentes longi, lineares, approximati, usque ad 8um. curtantes; clava fusiformis, acuminata, articulo 8°. multo longior non latior: thorax ovatus, convexus: mesothoracis scutum transversum; paraptera non convenientia; scutellum brevi-obconicum: abdomen brevi-ovatum, planum, thorace multo brevius vix angustius.

Sp. 29. En. Teuteus. Mas. *Cyaneo-viridis, abdomen æneum, antennæ nigro-fuscæ, pedes fusci, mesopedes fulvi, alæ limpidæ.*

Cyaneo-viridis: caput nigrum, obscurum, postice æneum: oculi et ocelli obscure rufi: antennæ nigro-fuscæ; articulus 1us. basi fulvus: metathorax æneus: abdomen cupreo-æneum, viridi varium: propedes fusci, genua et tarsi pallidiora: mesopedes læti fulvi, tarsi apice obscuriores: metapedes nigro-fusci, genua fulva, tarsi pallide fusci: alæ limpidæ; squamulæ et nervi pallide fusca. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Found near London.

Mas.—Corpus sublineare, pubescens, subnitens, scite punctatum: caput transversum, breve, convexum, thoracis latitudine; vertex latus; frons abrupte declivis: oculi mediocres: antennæ filiformes, pubescentes, corpore paullo breviores; articulus 1us. gracilis, fusiformis; 2us. cyathiformis, brevis; 3us. et sequentes ad 8um. longi, lineares, subæquales; clava fusiformis, articulo 8°. fere duplo longior: thorax longi-ovatus, convexus: mesothoracis scutum transversum; paraptera non convenientia; scutellum obconicum: abdomen ovatum, planum, thorace brevius.

Sp. 30. En. Aithyia. Mas. *Viridis aut cupreus, antennæ fuscæ, pedes fusci, tarsi pallidiores, alæ limpidæ.*

Viridis: oculi et ocelli obscure rufi: antennæ fuscæ; articuli 1us. et

2um. nigri: thorax cupreo-varius: abdomen nigro-cupreum: sexualia fusca: pedes nigro-fusci; genua fulva; tarsi pallide fusci; mesotarsi flavi, apice fusci: alæ limpidæ; squamulæ et nervi pallide fusca. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β.—Caput cupreo varium: thorax omnino cupreus.

Var. γ.—Genua et tarsi flava, hi apice fusci: protarsi fulvi.

July, September; near London, Cornwall.

Mas.—Corpus crassum, punctatum, pubescens, parum nitens: caput thoracis latitudine, transversum, breve, convexum; vertex latus; frons abrupte declivis: oculi mediocres: thorax ovatus, altus, convexus: mesothoracis scutum transversum; paraptera fere convenientia; scutellum obconicum: abdomen ovatum, planum, thorace paullo brevius multo angustius; antennæ longitudine corporis, filiformes, pubescentes, articulus 1us. gracilis, fusiformis; 2us. subrotundus; 3us. et sequentes longi, sublineares, usque ad 8$_{um}$. paullulum curtantes; clava fusiformes, acuminata, articulo 8$_{o}$. multo longior non latior: pedes longi.

Sp. 31. En. Spherus. Mas. *Niger aut viridis, abdomen cupreum, antennæ nigro-fuscæ, pedes nigro-fusci, tarsi pallidiores, alæ albæ.*

Niger: oculi et ocelli picei: antennæ nigro-fuscæ; articulus 1us. niger: abdomen nitens, læve, fere glabrum: sexualia fusca: pedes nigro-fusci; genua fulva; tarsi pallide fusci: alæ albæ; squamulæ et nervi fulva. (Corp. long. lin. $\frac{1}{3}$—$\frac{2}{3}$; alar. lin. $\frac{1}{2}$—$\frac{3}{4}$.)

Var. β.—Pedes fusci; tarsi flavi, apice obscuriores.

Var. γ.—Viridis: antennis articulus 1us. viridis: scutellum cupreo-æneum: abdomen nigro-cupreum: mesotarsi basi et subtus flavi.

Var. δ.—*Var.* γ similis: antennæ nigro-fuscæ; articulus 1us. fuscus, basi flavus: scutum viridi-cupreum.

September; near London, North Wales, Dorsetshire.

Mas.—Corpus longum, angustum, scite squameum, parce pubescens, parum nitens: caput thoracis latitudine, transversum, breve; vertex convexus; frons abrupte declivis: oculi mediocres: antennæ subserratæ, corporis longitudine; articulus 1us. fusiformis; 2us. brevis, cyathiformis; 3us. et sequentes ad 8um. latiores, cyathi-

formes, subæquales ; clava fusiformis, articulo 8°. duplo longior : thorax longi-ovatus, planus : mesothoracis scutum ut latum sic longum ; paraptera non convenientia ; scutellum brevi-obconicum : metathorax bene determinatus : abdomen longi-ovatum, depressum basi angustius, thoracis longitudine : pedes sat longi ; metafemora subclavata.

Sp. 32. En. Machæras. Mas. *Cupreus, antennæ fuscæ, pedes fulvo-fusci, femora nigra, alæ limpidæ.*

Cupreus : oculi et ocelli picei : antennæ pallide fuscæ ; articuli 1us. et 2us. nigro-ænei, hic apice et ille basi fulvi : metathorax nigro-cupreus : scutellum et abdomen nigro-cuprea, hoc nitens læve fere glabrum : sexualia fusca : pedes fusci ; coxæ et femora nigra, hæ apice albida ; tibiæ basi albidæ ; tarsi fulvi ; mesotarsi flavi, apice fusci : alæ limpidæ ; squamulæ et nervi fulva, hi apud stigma obscuriores. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

September; on grass in fields, near London.

Fem.—Corpus breve, sublineare, punctatum, nitens, pubescens : caput transversum, breve, convexum, thoracis latitudine ; frons abrupte declivis : antennæ clavatæ, graciles, corporis dimidio vix breviores ; articulus 1us. fusiformis, gracilis ; 2us. longi-cyathiformis ; 3us. et sequentes breves, subquadrati, usque ad 8um. latescentes et curtantes ; clava longi-ovata, articulo 8°. paullo latior et plus duplo longior : thorax ovatus, planus : mesothoracis scutum transversum ; paraptera supra non convenientia ; scutellum brevi-obconicum : abdomen brevi-ovatum, planum, thorace paullo latius vix brevius, subtus convexum, apice acuminatum : oviductus occultus : alæ amplæ.

Mas.—Corpus quam *fem.* angustius : antennæ moniliformes, verticillato-pilosæ, corporis dimido longiores ; articulus 2us. subrotundus, parvus ; 3us. et sequentes ad 8um. discreti, subtrigoni ; clava longi-ovata, articulo 8°. duplo longior non latior : abdomen thorace non latius.

Sp. 33. En. subcupratus. Mas et Fem. *Cupreus, antennæ* mari *fulvæ* fem. *fuscæ, pedes flavi, metapedes æneo-fusci, alæ limpidæ.*

Encyrtus subcupratus . *Dalman, Kongl. Vetens. Acad. Handl. för är,* 1820 ; *Nees ab Ess. Hym. Ich. affin. Monogr.* II. 252.

Fem.—Cupreus : caput viridi-æneum, subtus viride : oculi et ocelli

obscure rufi: antennæ fuscæ: thorax subtus cyaneo-viridis: abdomen cupreum, læve, fere glabrum, basi viridi varium: pedes læte flavi; coxæ cupreæ; tarsi apice fusci: metapedum femora nigro-ænea, tibiæ nigro-fuscæ apice basique flavæ; alæ limpidæ, fulvo subtinctæ, corporis longitudine; squamulæ et nervi fulva. (Corp. long. lin. $\frac{1}{2}$—$\frac{3}{4}$; alar. lin. $\frac{3}{4}$—1.)

Mas.—Antennæ fulvæ; articuli 1us. et 2us. supra fusci.

Var. β.—Fem. Abdomen basi omnino viride.

Var. γ.—Fem. Caput læte viride, antice viridi-cyaneum, postice viridi-æneum: thorax antice æneo-viridis.

Var. δ.—Mas. Thoracis scutum viridi varium.

Var. ε.—Mas. Caput et thorax viridia: scutellum cupreum.

April, May, July to September; on grass in woods near London, North Wales, Scotland. Found in Ireland by Mr. Haliday.

Sp. 34. En. coniferæ. (Haliday MSS.) Mas et Fem. *Viridis aut cupreus, antennæ fulvæ, pedes* mari *fusci* fem. *flavi, metapedes nigri, alæ limpidæ.*

Fem.—Viridis, cupreo-varius: caput antice viridi micans: oculi et ocelli obscure rufi: antennæ fulvæ; articuli 1us. et 2us. fusci, apice flavi: mesothoracis scutellum apice cupreum: abdomen læte cupreum: pedes flavi; tarsi apice fusci; protibiæ et protarsi fulva; metafemora et metatibiæ nigra, basi et apice flava: alæ limpidæ; squamulæ et nervi fulva, hi apice obscuriores.

Var. β.—Scutellum cupreum: abdomen basi viridi-cupreum.

Var. γ.—Var. β similis: caput postice cupreum: scuti discus cupreus.

Var. δ.—Antennis articuli 1us. et 2us. apice fulvi; 3us. et sequentes fusco-fulvi.

Var. ε.—Antennæ fuscæ: caput et thorax supra cuprea.

Mas.—Cupreus, nitens: oculi et ocelli obscure rufi: antennæ fulvæ; articuli 1us. et 2us fusci: abdomen nigro-cupreum: pedes flavi; coxæ æneæ; pro- et mesopedum femora et tibiæ nigro-fusca, basi et apice flava: pro- et metatarsi fulvi: metafemora et metatibiæ nigra: alæ limpidæ; squamulæ et nervi fusca. (Corp. long. lin. $\frac{1}{2}$—$\frac{3}{4}$; alar. lin. $\frac{3}{4}$—$1\frac{1}{4}$.)

Var. β—Antennis articuli 1us. et 2us nigri.

September; Dorsetshire, Devonshire. Found in Ireland, by Mr. Haliday.